JL LORDSYSTEM

DID AUTHENTICATION 020 PLATFORM MOBILE PASSPORT

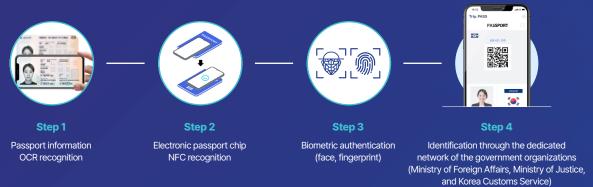


DID authentication O2O Platform

Mobile Passport

World's first mobile identity authentication platform generating QR code on mobile based on passport information. Read user's passport information on mobile and verify the authenticity through dedicated network of the government organizations (Ministry of Foreign Affairs, Ministry of Justice, and Korea Customs Service). Only after the authenticity confirmed, "Mobile Passport" can be generated.

"Mobile Passport" Creation Process



Patents and Technical Certificates

20 Domestic and International patents (8 registered and 12 applied)

Core Original Patents



Technical Certificates



Nice D&B TI-2 Best Grade Best Grade



Technical Assurance Fund Technical Patent Evaluation Grade A



Licenses and Awards

Venture Business Certification, InnoBiz Certification



Electronic finance business license, Tax refund counter operation business license, Tourism business license



2021 Minister of Culture, Sports, and Tourism Award, 2022 Chairman of the Financial Services Commission Award.

Security Technology

Security of Mobile Passport Creation

(9 technologies verified by KISA)

1	Blockchain DID	3 Private blockchain nodes are configured to prevent forgery of the ledger and improve blockchain speed (IBM: Hyperledger fabric)
2	Electronic passport chip recognition	Recognition of passport information stored in electronic passport IC chip to fundamentally prevents forgery/modulation source
3	Biometric authentication	Fingerprint & facial recognition login, and prevention of forgery/modulation
4	Photo image bit encryption	10mb image with no change in file size $ ightarrow$ 0.1 msec encryption
5	E2E Data Encryption Transfer	Encrypt and Send of Data
6	Real-time authentication	Connecting a dedicated line to the Korea Customs Service (ARIA Encryption Communication) & Ministry of Justice (Hikorea WEB Scraping
7	Passport owner authentication	Authenticate through comparing Photo data of electronic passport IC chip and user's facial recognition. Fundametally block sources of fraudulent use.
8	App security technology	OS modulation, Screen copy prohibition, APP modulation debugging detection, DATA safe zone storage
9	Server Security Technology	Applying international standards financial cloud. ISO/IEC 27017 (Cloud Information Protection Standard) & ISO/IEC 27018 (Cloud Privacy Standard)

Security of Mobile Passport Use

• Private key security management Key Management System (KMS) and Service app WhiteBox Crypto

(with NIST FIPS 140-2 Level 1 certified WBC) applied

• Encrypted Communications End to End Encrypted Communications

• Biological Information Authentication FIDO2-based user biometric authentication

· DID-based electronic signature authentication

Personal Information Protection System

• Firewall IPS function Block unauthorized IP intrusion

•PC centralized vaccine installation Central control and IT asset management/media-control/web/

software-blocking- management

• Information Protection System Adopt of Information Leakage Prevention Solution with Integrated PC Security

• **IDC network isolation operations**General service access is managed only by web/communication servers in the DMZ. Server management service access

(SSH, SFTP, TELNET, RCP) is limited to VPN connections.



SmartPass

"Hotel Fast Check In&out" - From identity authentication to fill up entry form, with nothing more than a mobile QR code.

"Walking-through Entry Authentication" - Even in casinos, Simply Walk-in only with facial recognition.

"Mobile identity authentication" - Even at Duty Free shops, No need of physical passport!

Step 1 Install [Trip.PASS], create and register Mobile Passport

Step 2 First time physical passport check and Mobile Passport QR authentication "Walking-through"

Step 3 QR / Facial recognition entry service register service process

Convenient automatic entry authentication with facial recognition or QR code

기획재정부

과학기술정보통신부

KISA 한국인터넷진흥원

Incheon Airport

GKL

Fintech

Casino

Now foreigners also be like Locals!

Everyone can enjoy all the living financial services necessary for tourism on mobile, such as simple payment, transportation card, and electronic certificate issuance.

"Transportation service process

Step 1 Install [Trip.PASS], create and register Mobile Passport

Step 2 Charge the transportation prepaid card in the app

Step 3 Easy NFC payment on buses, subways, taxis, etc









Tax-Free shopping (Tax Refund)

All procedures for Tax-Free shopping, such as passport presentation, receipt issuance, refund counter visit, customs inspection, etc. are resolved at once on mobile. Mobile Tax-Free Shopping, Fastest and the most convenient Tax Refund service

"Tax-Free Payment" service process Step 1 Purchase at merchant

Step 4 On-site immediate tax discount payment

Step 2 Create a QR code for payment (APP) Step 5 Issue a mobile receipt

Step 3 Scan the QR code













Mobile Passport

Performances

Government Organization Businesses

2022 Seoul Metropolitan Government Seoul Pay+ Global

Designated Seoul Local Voucher SeoulPay+ Global operator.
Seoul Local Voucher global payment and tax refund project in progress.



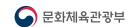
2022 Incheon International Airport SmartPass Project

Biometric information based Untact identity authentication service.
"Mobile Passport" technology provision contract signed and the project in progress.



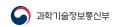
2022 Ministry of Culture, Sports and Tourism supervised Foreigner-only Casino GKL, SmartPass Project

Foreigner identity authentication and facial recognition easy entry service in progress (K-Testbed project completed in 2021)



2021 Ministry of Science and ICT, Korea Internet & Security Agency 'New tech applied untact security service' pilot project completed

Develop the untact identity authentication service platform for foreigners staying in Korea



2020 Seoul Metropolitan Government, Seoul Business Agency (SBA) Testbed Project

Mobile Passport based QR code-type mobile immediate tax refund business demonstrated.



Private Enterprises Businesses

Foreigner Financial Services

Providing a Mobile Passport system within the KB Kookmin Card platform $\,$



Public FinTech Business Consortium

Designated as the foreigner business operator in charge of the Seoul Metropolitan Government's local Voucher business "SeoulPay + Global"



WeChat - ZeroPay Immediate Tax refund merchant business

Provide Tax Refund service to 1.4 million ZeroPay merchants and simple payment & mobile immediate Tax Refund service to 1.4 billion WeChat users.



BGF Retail, BGF Networks Immediate Tax Refund Business

Provide Tax Refund service to nationwide 16,000 CU convenience stores.



Lotte Duty Free DID (Decentralized Identifier) Authentication Shopping

No need of passport, mobile one-pass identity authentication Duty Free shopping



The Smartest Way to Enjoy Travel!



Borderless Travel Platform Trip.PASS

Realize diffrenciated "Smart Travel Service" with Lordsystem's unique DID(Decentralized Identifier) authentication platform "Mobile Passport"

How to use Trip. PASS

Step 1

Go to the QR link and download the AOS/IOS [Trip.PASS].

Step 2

Register your passport information to create your own "Mobile Passport".

1 Passport shooting - 2 NFC tag recognition - 3 Facial recognition - 4 Mobile Passport creation completed

Step 3

Enjoy All-in-one tourism services such as mobile identity authentication, QR simple payment, mobile transportation card, and mobile Tax-Free shopping with Trip.PASS!